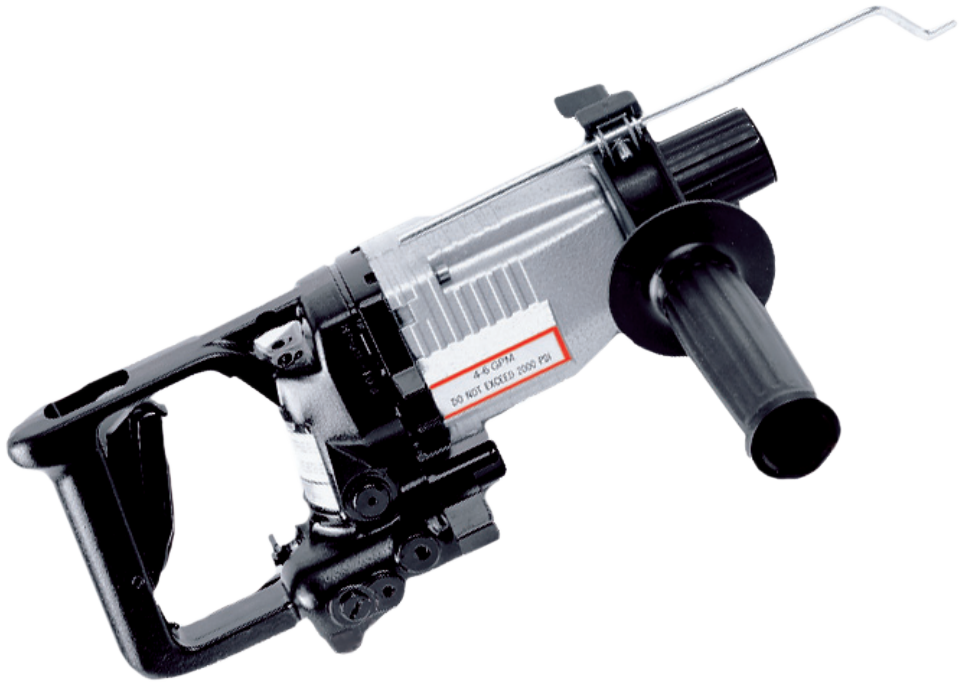
STANLEY®

HD08

HYDRAULIC HAMMER DRILL



SAFETY, OPERATION AND MAINTENANCE
USER MANUAL

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New Britain, CT 06053
U.S.A.
65301 2/2011 Ver. 4

DECLARATION OF CONFORMITY

DECLARATION OF CONFORMITY
ÜBEREINSTIMMUNGS-ERKLARUNG
DECLARATION DE CONFORMITE CEE
DECLARACION DE CONFORMIDAD
DICHIARAZIONE DI CONFORMITA

CE

STANLEY
Hydraulic Tools

I, the undersigned:
Ich, der Unterzeichnende:
Je soussigné:
El abajo firmante:
lo sottoscritto:

Weisbeck, Andy

Surname and First names/Familiennname und Vornamen/Nom et prénom/Nombre y apellido/Cognome e nome

hereby declare that the equipment specified hereunder:
bestätige hiermit, daß erklaren Produkt genannten Werk oder Gerät:
déclare que l'équipement visé ci-dessous:
Por la presente declaro que el equipo se especifica a continuación:
Dichiaro che le apparecchiature specificate di seguito:

1. Category:
   Kategorie:
   Catégorie:
   Categoria:
   Categoria:
   Hammer Drill, Hydraulic
2. Make/Marke/Marque/Marca/Marca **Stanley**
3. Type/Typ/Type/Tipo/Tipo: **HD0853101**
4. Serial number of equipment:
   Seriennummer des Geräts:
   Numéro de série de l'équipement:
   Numero de serie del equipo:
   Matricola dell´attrezzatura:
   All

Has been manufactured in conformity with
Wurde hergestellt in Übereinstimmung mit
Est fabriqué conformément
Ha sido fabricado de acuerdo con
E' stata costruita in conformitá con

Directive/Standards Richtlinie/Standards Directives/Normes Directriz/Los Normas Direttiva/Norme	No. Nr Numéro No n.	Approved body Prüfung durch Organisme agréé Aprobado Collaudato
EN ISO ISO ISO Machinery Directive EN ISO	3744:2009 792-5:1994 8662-3:1992 2006/42/EC:2006 12100-1, 12100-2:2009	Self Self Self Self Self

5. Special Provisions: **None**
   Spezielle Bestimmungen:
   Dispositions particulières:
   Provisiones especiales:
   Disposizioni speciali:

6. Representative in the Union: **Patrick Vervier**, **Stanley Dubuis 17-19, rue Jules Berthonneau-BP 3406 41034 Blois Cedex, France.**
   Vertreter in der Union/Représentant dans l'union/Representante en la Union/Rappresentante presso l'Unione

Done at/Ort/Fait à/Dado en/Fatto a Stanley Hydraulic Tools, Milwaukie, Oregon USA Date/Datum/le/Fecha/Data 1-10-11

Signature/Unterschrift/Signature/Firma/Firma Andy Weisbeck

Position/Position/Fonction/Cargo/Posizione Engineering Manager

1/10/2011

STANLEY

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IMPORTANT

To fill out a Product Warranty Recording form, and for information on your warranty, visit Stanleyhydraulic.com and select the Warranty tab.
(**NOTE:** The warranty recording form must be submitted to validate the warranty).

SERVICING THE STANLEY HYDRAULIC HAMMER DRILL. This manual contains safety, operation, and routine maintenance instructions. Stanley Hydraulic Tools recommends that servicing of hydraulic tools, other than routine maintenance, must be performed by an authorized and certified dealer. Please read the following warning.

⚠ WARNING

SERIOUS INJURY OR DEATH COULD RESULT FROM THE IMPROPER REPAIR OR SERVICE OF THIS TOOL.

REPAIRS AND / OR SERVICE TO THIS TOOL MUST ONLY BE DONE BY AN AUTHORIZED AND CERTIFIED DEALER.

For the nearest authorized and certified dealer, call Stanley Hydraulic Tools at the number listed on the back of this manual and ask for a Customer Service Representative.

SAFETY SYMBOLS

Safety symbols and signal words, as shown below, are used to emphasize all operator, maintenance and repair actions which, if not strictly followed, could result in a life-threatening situation, bodily injury or damage to equipment.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠ DANGER — This safety alert and signal word indicate an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING — This safety alert and signal word indicate a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION — This safety alert and signal word indicate a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION — This signal word indicates a potentially hazardous situation which, if not avoided, may result in property damage.

NOTICE — This signal word indicates a situation which, if not avoided, will result in damage to the equipment.

IMPORTANT — This signal word indicates a situation which, if not avoided, may result in damage to the equipment.

Always observe safety symbols. They are included for your safety and for the protection of the tool.

LOCAL SAFETY REGULATIONS

Enter any local safety regulations here. Keep these instructions in an area accessible to the operator and maintenance personnel.

SAFETY PRECAUTIONS

Tool operators and maintenance personnel must always comply with the safety precautions given in this manual and on the stickers and tags attached to the tool and hose.

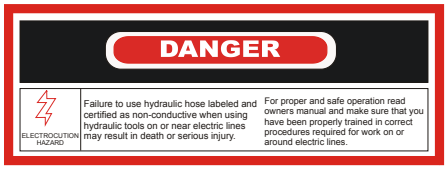
These safety precautions are given for your safety. Review them carefully before operating the tool and before performing general maintenance or repairs.

Supervising personnel should develop additional precautions relating to the specific work area and local safety regulations. If so, place the added precautions in the space provided in this manual.

The model HD08 Hydraulic Hammer Drill will provide safe and dependable service if operated in accordance with the instructions given in this manual. Read and understand this manual and any stickers and tags attached to the tool and hose before operation. Failure to do so could result in personal injury or equipment damage.

- The operator must start in a work area without bystanders. Flying debris can cause serious injury.
- Do not operate the tool unless thoroughly trained or under the supervision of an instructor. Establish a training program for all operators to ensure safe operation.
- Always wear safety equipment such as goggles, ear and head protection, and safety shoes at all times when operating the tool. Use gloves and aprons when necessary.
- The operator must be familiar with all prohibited work areas such as excessive slopes and dangerous terrain conditions.
- Do not inspect, clean or replace any part(s) if the hydraulic power source is connected. Do not inspect or clean the tool while the hydraulic power source is connected. Accidental engagement of the tool can cause serious injury.
- Always connect hoses to the tool hose couplers before energizing the hydraulic power source. Be sure all hose connections are tight and are in good condition.
- Do not operate the tool at oil temperatures above 140 °F/60 °C. Operation at higher temperatures can cause higher than normal temperatures at the tool which can result in operator discomfort.
- Do not operate a damaged, improperly adjusted, or incompletely assembled hammer drill.
- Never wear loose clothing that can get entangled in the working parts of the tool.
- Keep all parts of your body away from the drill and maintain proper footing and balance at all times.
- When working near electrical conductors, always assume that all conductors are energized and that insulation, clothing and hoses can conduct electricity. Stay a safe distance away from electrical conductors.
- If the hydraulic power supply has been interrupted, place the hammer drill in the OFF position before restarting the hydraulic power supply.
- To avoid personal injury or equipment damage, all tool repair, maintenance and service must only be performed by authorized and properly trained personnel.

TOOL STICKERS & TAGS

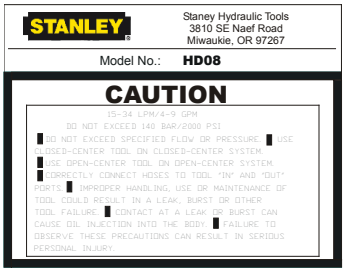

DANGER
ELECTROCUTION HAZARD
Failure to use hydraulic hose labeled and certified as non-conductive when using hydraulic tools on or near electric lines may result in death or serious injury.
For proper and safe operation read owners manual and make sure that you have been properly trained in correct procedures required for work on or around electric lines.

17160
Electrical Danger Decal

17179
Stanley Decal

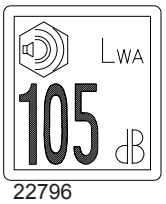
28788
Manual Decal

28323
CE Decal


STANLEY
Staney Hydraulic Tools
3810 SE Naef Road
Miwaukie, OR 97267
Model No.: HD08
CAUTION
15-34 LPM/4-9 GPM
DO NOT EXCEED 140 BAR/2000 PSI
DO NOT EXCEED SPECIFIED FLOW OR PRESSURE. USE CLOSED-CENTER TOOL ON CLOSED-CENTER SYSTEM.
USE OPEN-CENTER TOOL ON OPEN-CENTER SYSTEM.
CORRECTLY CONNECT HOSES TO TOOL "IN" AND "OUT" PORTS. IMPROPER HANDLING, USE OR MAINTENANCE OF TOOL COULD RESULT IN A LEAK, BURST OR OTHER TOOL FAILURE. CONTACT AT A LEAK OR BURST CAN CAUSE OIL INJECTION INTO THE BODY. FAILURE TO OBSERVE THESE PRECAUTIONS CAN RESULT IN SERIOUS PERSONAL INJURY.

17161
HD08 Name Tag/GPM Decal

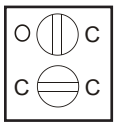
11354
OC/CC Decal



22796
Sound Power Level Decal

11207
Circuit D Decal

11206
Circuit C Decal



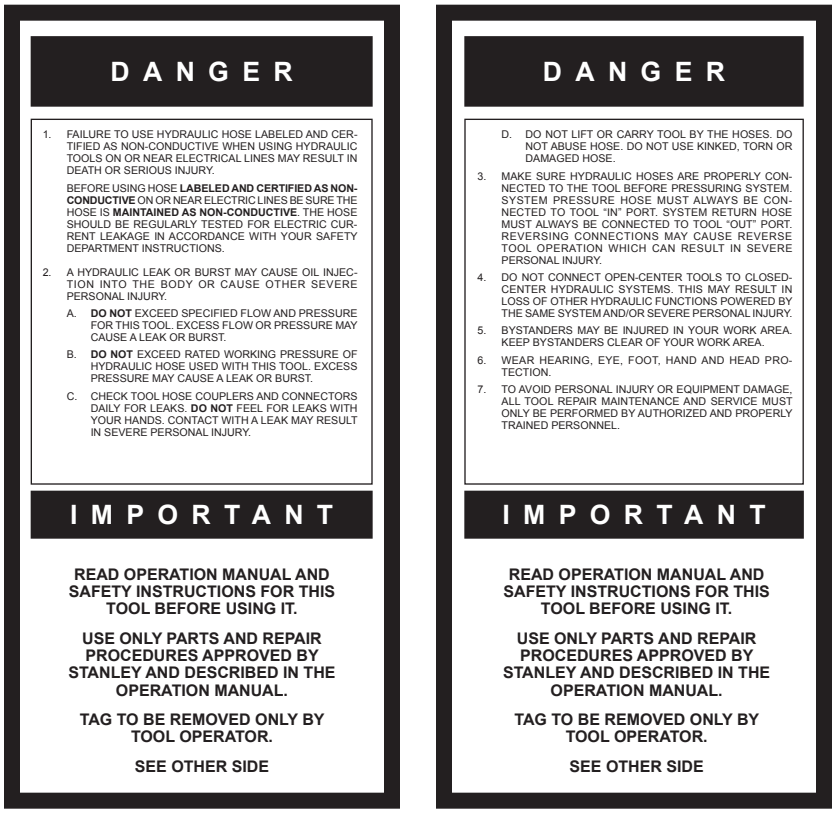
17162
OC/CC Decal

NOTE:

THE INFORMATION LISTED ON THE STICKERS SHOWN, MUST BE LEGIBLE AT ALL TIMES.

REPLACE DECALS IF THEY BECOME WORN OR DAMAGED. REPLACEMENTS ARE AVAILABLE FROM YOUR LOCAL STANLEY DISTRIBUTOR.

The safety tag (P/N 15875) at right is attached to the tool when shipped from the factory. Read and understand the safety instructions listed on this tag before removal. We suggest you retain this tag and attach it to the tool when not in use.


DANGER
1. FAILURE TO USE HYDRAULIC HOSE LABELED AND CERTIFIED AS NON-CONDUCTIVE WHEN USING HYDRAULIC TOOLS ON OR NEAR ELECTRICAL LINES MAY RESULT IN DEATH OR SERIOUS INJURY.
BEFORE USING HOSE LABELED AND CERTIFIED AS NON-CONDUCTIVE ON OR NEAR ELECTRIC LINES BE SURE THE HOSE IS MAINTAINED AS NON-CONDUCTIVE. THE HOSE SHOULD BE REGULARLY TESTED FOR ELECTRIC CURRENT LEAKAGE IN ACCORDANCE WITH YOUR SAFETY DEPARTMENT INSTRUCTIONS.
2. A HYDRAULIC LEAK OR BURST MAY CAUSE OIL INJECTION INTO THE BODY OR CAUSE OTHER SEVERE PERSONAL INJURY.
A. DO NOT EXCEED SPECIFIED FLOW AND PRESSURE FOR THIS TOOL. EXCESS FLOW OR PRESSURE MAY CAUSE A LEAK OR BURST.
B. DO NOT EXCEED RATED WORKING PRESSURE OF HYDRAULIC HOSE USED WITH THIS TOOL. EXCESS PRESSURE MAY CAUSE A LEAK OR BURST.
C. CHECK TOOL HOSE COUPLERS AND CONNECTORS DAILY FOR LEAKS. DO NOT FEEL FOR LEAKS WITH YOUR HANDS. CONTACT WITH A LEAK MAY RESULT IN SEVERE PERSONAL INJURY.
IMPORTANT
READ OPERATION MANUAL AND SAFETY INSTRUCTIONS FOR THIS TOOL BEFORE USING IT.
USE ONLY PARTS AND REPAIR PROCEDURES APPROVED BY STANLEY AND DESCRIBED IN THE OPERATION MANUAL.
TAG TO BE REMOVED ONLY BY TOOL OPERATOR.
SEE OTHER SIDE
DANGER
D. DO NOT LIFT OR CARRY TOOL BY THE HOSES. DO NOT ABUSE HOSE. DO NOT USE KINKED, TORN OR DAMAGED HOSE.
3. MAKE SURE HYDRAULIC HOSES ARE PROPERLY CONNECTED TO THE TOOL BEFORE PRESSURING SYSTEM. SYSTEM PRESSURE HOSE MUST ALWAYS BE CONNECTED TO TOOL "IN" PORT. SYSTEM RETURN HOSE MUST ALWAYS BE CONNECTED TO TOOL "OUT" PORT. REVERSING CONNECTIONS MAY CAUSE REVERSE TOOL OPERATION WHICH CAN RESULT IN SEVERE PERSONAL INJURY.
4. DO NOT CONNECT OPEN-CENTER TOOLS TO CLOSED-CENTER HYDRAULIC SYSTEMS. THIS MAY RESULT IN LOSS OF OTHER HYDRAULIC FUNCTIONS POWERED BY THE SAME SYSTEM AND/OR SEVERE PERSONAL INJURY.
5. BYSTANDERS MAY BE INJURED IN YOUR WORK AREA. KEEP BYSTANDERS CLEAR OF YOUR WORK AREA.
6. WEAR HEARING, EYE, FOOT, HAND AND HEAD PROTECTION.
7. TO AVOID PERSONAL INJURY OR EQUIPMENT DAMAGE, ALL TOOL REPAIR MAINTENANCE AND SERVICE MUST ONLY BE PERFORMED BY AUTHORIZED AND PROPERLY TRAINED PERSONNEL.
IMPORTANT
READ OPERATION MANUAL AND SAFETY INSTRUCTIONS FOR THIS TOOL BEFORE USING IT.
USE ONLY PARTS AND REPAIR PROCEDURES APPROVED BY STANLEY AND DESCRIBED IN THE OPERATION MANUAL.
TAG TO BE REMOVED ONLY BY TOOL OPERATOR.
SEE OTHER SIDE

SAFETY TAG P/N 15875 (Shown smaller then actual size)

The rated working pressure of the hydraulic hose must be equal to or higher than the relief valve setting on the hydraulic system. There are three types of hydraulic hose that meet this requirement and are authorized for use with Stanley Hydraulic Tools. They are:

Certified non-conductive — constructed of thermoplastic or synthetic rubber inner tube, synthetic fiber braid reinforcement, and weather resistant thermoplastic or synthetic rubber cover. *Hose labeled **certified non-conductive** is the only hose authorized for use near electrical conductors.*

Wire-braided (conductive) — constructed of synthetic rubber inner tube, single or double wire braid reinforcement, and weather resistant synthetic rubber cover. *This hose is **conductive** and must never be used near electrical conductors.*

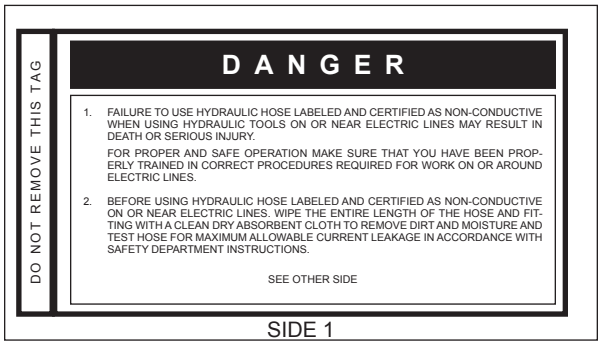
Fabric-braided (not certified or labeled non-conductive) — constructed of thermoplastic or synthetic rubber inner tube, synthetic fiber braid reinforcement, and weather resistant thermoplastic or synthetic rubber cover. *This hose is **not certified non-conductive** and must never be used near electrical conductors.*

HOSE SAFETY TAGS

To help ensure your safety, the following DANGER tags are attached to all hose purchased from Stanley Hydraulic Tools. DO NOT REMOVE THESE TAGS.

If the information on a tag is illegible because of wear or damage, replace the tag immediately. A new tag may be obtained from your Stanley Distributor.

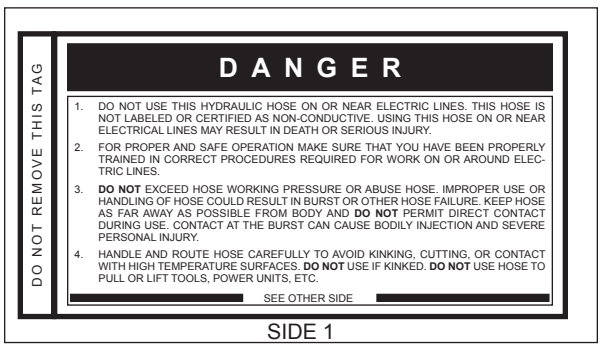
THE TAG SHOWN BELOW IS ATTACHED TO "CERTIFIED NON-CONDUCTIVE" HOSE

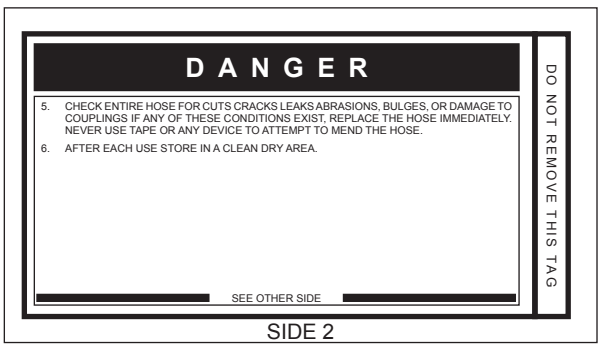

DO NOT REMOVE THIS TAG
D A N G E R
1. FAILURE TO USE HYDRAULIC HOSE LABELED AND CERTIFIED AS NON-CONDUCTIVE WHEN USING HYDRAULIC TOOLS ON OR NEAR ELECTRIC LINES MAY RESULT IN DEATH OR SERIOUS INJURY.
FOR PROPER AND SAFE OPERATION MAKE SURE THAT YOU HAVE BEEN PROPERLY TRAINED IN CORRECT PROCEDURES REQUIRED FOR WORK ON OR AROUND ELECTRIC LINES.
2. BEFORE USING HYDRAULIC HOSE LABELED AND CERTIFIED AS NON-CONDUCTIVE ON OR NEAR ELECTRIC LINES. WIPE THE ENTIRE LENGTH OF THE HOSE AND FITTING WITH A CLEAN DRY ABSORBENT CLOTH TO REMOVE DIRT AND MOISTURE AND TEST HOSE FOR MAXIMUM ALLOWABLE CURRENT LEAKAGE IN ACCORDANCE WITH SAFETY DEPARTMENT INSTRUCTIONS.
SEE OTHER SIDE
SIDE 1

D A N G E R
3. DO NOT EXCEED HOSE WORKING PRESSURE OR ABUSE HOSE. IMPROPER USE OR HANDLING OF HOSE COULD RESULT IN BURST OR OTHER HOSE FAILURE. KEEP HOSE AS FAR AWAY AS POSSIBLE FROM BODY AND DO NOT PERMIT DIRECT CONTACT DURING USE. CONTACT AT THE BURST CAN CAUSE BODILY INJECTION AND SEVERE PERSONAL INJURY.
4. HANDLE AND ROUTE HOSE CAREFULLY TO AVOID KINKING, ABRASION, CUTTING, OR CONTACT WITH HIGH TEMPERATURE SURFACES. DO NOT USE IF KINKED. DO NOT USE HOSE TO PULL OR LIFT TOOLS, POWER UNITS, ETC.
5. CHECK ENTIRE HOSE FOR CUTS CRACKS LEAKS ABRASIONS, BULGES, OR DAMAGE TO COUPLINGS IF ANY OF THESE CONDITIONS EXIST, REPLACE THE HOSE IMMEDIATELY. NEVER USE TAPE OR ANY DEVICE TO ATTEMPT TO MEND THE HOSE.
6. AFTER EACH USE STORE IN A CLEAN DRY AREA.
SEE OTHER SIDE
DO NOT REMOVE THIS TAG
SIDE 2

(Shown smaller than actual size)

THE TAG SHOWN BELOW IS ATTACHED TO "CONDUCTIVE" HOSE.


DO NOT REMOVE THIS TAG
D A N G E R
1. DO NOT USE THIS HYDRAULIC HOSE ON OR NEAR ELECTRIC LINES. THIS HOSE IS NOT LABELED OR CERTIFIED AS NON-CONDUCTIVE. USING THIS HOSE ON OR NEAR ELECTRICAL LINES MAY RESULT IN DEATH OR SERIOUS INJURY.
2. FOR PROPER AND SAFE OPERATION MAKE SURE THAT YOU HAVE BEEN PROPERLY TRAINED IN CORRECT PROCEDURES REQUIRED FOR WORK ON OR AROUND ELECTRIC LINES.
3. DO NOT EXCEED HOSE WORKING PRESSURE OR ABUSE HOSE. IMPROPER USE OR HANDLING OF HOSE COULD RESULT IN BURST OR OTHER HOSE FAILURE. KEEP HOSE AS FAR AWAY AS POSSIBLE FROM BODY AND DO NOT PERMIT DIRECT CONTACT DURING USE. CONTACT AT THE BURST CAN CAUSE BODILY INJECTION AND SEVERE PERSONAL INJURY.
4. HANDLE AND ROUTE HOSE CAREFULLY TO AVOID KINKING, CUTTING, OR CONTACT WITH HIGH TEMPERATURE SURFACES. DO NOT USE IF KINKED. DO NOT USE HOSE TO PULL OR LIFT TOOLS, POWER UNITS, ETC.
SEE OTHER SIDE
SIDE 1


D A N G E R
5. CHECK ENTIRE HOSE FOR CUTS CRACKS LEAKS ABRASIONS, BULGES, OR DAMAGE TO COUPLINGS IF ANY OF THESE CONDITIONS EXIST, REPLACE THE HOSE IMMEDIATELY. NEVER USE TAPE OR ANY DEVICE TO ATTEMPT TO MEND THE HOSE.
6. AFTER EACH USE STORE IN A CLEAN DRY AREA.
SEE OTHER SIDE
DO NOT REMOVE THIS TAG
SIDE 2

(Shown smaller than actual size)

Tool to Hydraulic Circuit Hose Recommendations

The chart to the right shows recommended minimum hose diameters for various hose lengths based on gallons per minute (gpm)/ liters per minute (lpm). These recommendations are intended to keep return line pressure (back pressure) to a minimum acceptable level to ensure maximum tool performance.

This chart is intended to be used for hydraulic tool applications only based on Stanley Hydraulic Tools tool operating requirements and should not be used for any other applications.

All hydraulic hose must have at least a rated minimum working pressure equal to the maximum hydraulic system relief valve setting.

All hydraulic hose must meet or exceed specifications as set forth by SAE J517.

Oil Flow		Hose Lengths		Inside Diameter		USE (Press/Return)	Min. Working Pressure	
GPM	LPM	FEET	METERS	INCH	MM		PSI	BAR
Certified Non-Conductive Hose - Fiber Braid - for Utility Bucket Trucks								
4-9	15-34	up to 10	up to 3	3/8	10	Both	2250	155
Conductive Hose - Wire Braid or Fiber Braid -DO NOT USE NEAR ELECTRICAL CONDUCTORS								
4-6	15-23	up to 25	up to 7.5	3/8	10	Both	2500	175
4-6	15-23	26-100	7.5-30	1/2	13	Both	2500	175
5-10.5	19-40	up to 50	up to 15	1/2	13	Both	2500	175
5-10.5	19-40	51-100	15-30	5/8	16	Both	2500	175
5-10.5	19-40	100-300	30-90	5/8	16	Pressure	2500	175
				3/4	19	Return	2500	175
10-13	38-49	up to 50	up to 15	5/8	16	Both	2500	175
10-13	38-49	51-100	15-30	5/8	16	Pressure	2500	175
				3/4	19	Return	2500	175
10-13	38-49	100-200	30-60	3/4	19	Pressure	2500	175
				1	25.4	Return	2500	175
13-16	49-60	up to 25	up to 8	5/8	16	Pressure	2500	175
				3/4	19	Return	2500	175
13-16	49-60	26-100	8-30	3/4	19	Pressure	2500	175
				1	25.4	Return	2500	175

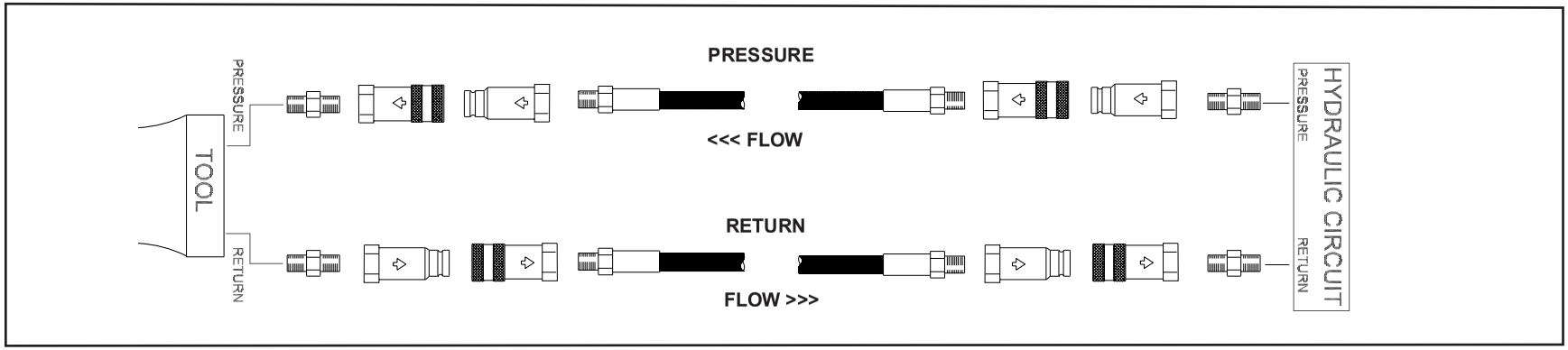


Figure 1. Typical Hose Connections

HTMA REQUIREMENTS

HYDRAULIC SYSTEM REQUIREMENTS	TOOL CATEGORY TYPE I	 TYPE II	TYPE III	TYPE RR
FLOW RATE	4–6 gpm (15–23 lpm)	7–9 gpm (26–34 lpm)	11–13 gpm (42–49 lpm)	9–10.5 gpm (34–40 lpm)
TOOL OPERATING PRESSURE (At the power supply outlet)	2000 psi (145–155 bar)	2000 psi (138 bar)	2000 psi (138 bar)	2000 psi (138 bar)
SYSTEM RELIEF VALVE SETTING (At the power supply outlet)	2100–2250 psi (145–155 bar)	2100–2250 psi (145–155 bar)	2100–2250 psi (145–155 bar)	2200–2300 psi (145–155 bar)
MAXIMUM BACK PRESSURE (At tool end of the return hose)	250 psi (17 bar)	250 psi (17 bar)	250 psi (17 bar)	250 psi (17 bar)
Measured at a max. fluid viscosity of: (At min. operating temperature)	400 ssu* (82 centistokes)	400 ssu* (82 centistokes)	400 ssu* (82 centistokes)	400 ssu* (82 centistokes)
TEMPERATURE Sufficient heat rejection capacity to limit max. fluid temperature to: (At max. expected ambient temperature)	140 °F (60 °C)	140 °F (60 °C)	140 °F (60 °C)	140 °F (60 °C)
Min. cooling capacity at a temperature difference of between ambient and fluid temps	3 hp (2.24 kW) 40 °F (22 °C)	5 hp (3.73 kW) 40 °F (22 °C)	7 hp (4.47 kW) 40 °F (22 °C)	6 hp (5.22 kW) 40 °F (22 °C)
NOTE: Do not operate the tool at oil temperatures above 140 °F (60 °C). Operation at higher temperatures can cause operator discomfort at the tool.				
FILTER Min. full-flow filtration Sized for flow of at least: (For cold temp. start-up and max. dirt-holding capacity)	25 microns 30 gpm (114 lpm)	25 microns 30 gpm (114 lpm)	25 microns 30 gpm (114 lpm)	25 microns 30 gpm (114 lpm)
HYDRAULIC FLUID	100–400 ssu*	100–400 ssu*	100–400 ssu*	100–400 ssu*
Petroleum based (Premium grade, anti-wear, non-conductive) VISCOSITY (At min. and max. operating temps)	(20–82 centistokes)			
NOTE: When choosing hydraulic fluid, the expected oil temperature extremes that will be experienced in service determine the most suitable temperature viscosity characteristics. Hydraulic fluids with a viscosity index over 140 will meet the requirements over a wide range of operating temperatures.				

*SSU = Saybolt Seconds Universal

OPERATION

PRE-OPERATION PROCEDURES

CHECK POWER SOURCE

1. Using a calibrated flowmeter and pressure gauge, check that the hydraulic power source develops a flow of 4–9 gpm/15–34 lpm at 950–2000 psi/66–140 bar.
2. Make certain that the hydraulic power source is equipped with a relief valve set to open at 2100–2250 psi/145–155 bar.
3. Check that the hydraulic circuit matches the tool for open-center (OC) or closed-center (CC) operation.

CHECK THE TOOL

1. Make certain all tool accessories are correctly installed. Failure to install tool accessories properly can result in damage to the tool or personal injury.
2. There should be no signs of leaks.
3. The tool should be clean and dry with all fittings and fasteners tight.

CONNECT HOSES

1. Wipe all hose couplers with a clean lint-free cloth before making connections.
2. Connect the hoses from the hydraulic power source to the tool fittings or quick disconnects. Connect the return hose first and disconnect it last to eliminate or reduce trapped pressure for easier quick-connect fitting attachment.

NOTE:

If uncoupled hoses are left in the sun, pressure increase within the hoses can make them difficult to connect. Whenever possible, connect the free ends of hoses together.

3. Observe the flow indicators stamped on the hose couplers to ensure that the flow is in the proper direction. The female coupler on the tool's **IN** port is the inlet coupler. See illustration in back of this manual for tool port identification.
4. Squeeze the drill trigger momentarily. If the drill does not operate, the hoses might be reversed. Verify correct connection of the hoses before continuing.

DETERMINE TOOL MODEL

Open-center or Closed-center Models

Closed-center models have a closed-center decal on the bottom of the handle.

If you are in doubt about the type, test the tool by connecting it to an open-center circuit with the trigger released. If pressure rises more in the circuit with the trigger released than when the trigger is pulled, the tool is closed-center.

Open-center/Closed-center Selectable Models

The open-center/closed-center selectable model has a decal on the trigger strut to remind you of the knob positions to select.

IMPORTANT

Failure to set this spool correctly can cause a mismatch with the hydraulic circuit. This can result in rapid tool heating, seal failure, and poor tool performance.

NOTE:

All models have a knurled knob on the spool. This knob cannot be rotated on single-circuit type tools.

CONTROLS

FORWARD/REVERSE

Forward/Reverse rotation is selected by the lever on the left-hand side of the tool, as shown in Figure 2.

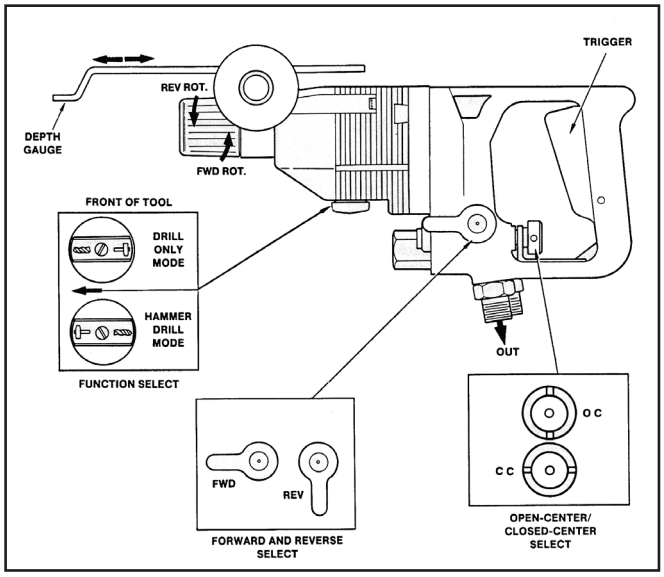


Figure 2. Operator Controls

HAMMER DRILL OR DRILL ONLY

Most HD08 operations will be to drill holes in brittle materials such as rock, concrete, or other aggregate. This mode of operation is selected at the knob below the tool nose by aiming the picture of the hammer toward the SDS chuck. For light drilling, the hammering action is turned off by turning the knob so the picture of a drill bit aims at the chuck. In both cases the tool must not be operated without the knob pointing straight front-to-back.

There is no setting for hammering only, however, Figure 3 shows a bull-point chisel bit that can be inserted to chip while the chuck is turning in the hammer drill mode.

IMPORTANT

Do not operate the tool unless the hammer/drill knob Is set to one of the positions described above.

OPEN-CENTER CLOSED-CENTER OC/CC

The OC/CC selectable model has a knurled knob on the spool end holding the trigger strut and has two opposing set screws showing the circuit setting. If the set screws are horizontal (cross-wise), the setting is for closed-center circuits. If the set screws are on a vertical line, the setting is for open-center circuits. The knob can be twisted to change and should be checked to avoid a wrong setting. A decal on the trigger strut helps remind you of the knob positions to select.

NOTE:

Single circuit type tools now have a knob on the spool but it cannot be rotated.

DEPTH GAUGE

Drilling depth can be set using the depth gauge shown in Figure 3. To set the gauge, loosen the side handle, slide the gauge to the desired position, and tighten the locking knob. Be sure the side handle is tight before operating the tool.

The spacing between lines on the gauge is approximately 10 mm. The depth gauge can be removed when not in use.

SIDE HANDLE

The side handle assembly, including the depth gauge, fits over the front housing of the hammer drill to assist the operator in maneuvering the tool.

To adjust the side handle to a comfortable position, twist the hand grip in a counterclockwise direction and reposition the handle assembly. Once in position, tighten the handle assembly by twisting the hand grip in a clockwise direction.

Do not clamp the side handle to the black chuck collar. Clamp the handle only to the housing, against the body shoulder. The side handle should be securely attached to the hammer drill during operation.

BIT INSTALLATION

Bits with SDS Plus shanks are mounted directly into the tool holder of the hammer drill. It is a good practice to slightly grease or oil the bit shanks before inserting them.

To install SDS Plus shanked bits or the bull-point chisel bit, insert the shank into the tool holder at the nose of the hammer drill. Then slightly turn the bit until it can be pushed into the socket. To remove the bit, turn the tool holder sleeve clockwise (while looking from the handle of the drill to the bit holder) until it stops. Then pull the bit out of the tool.

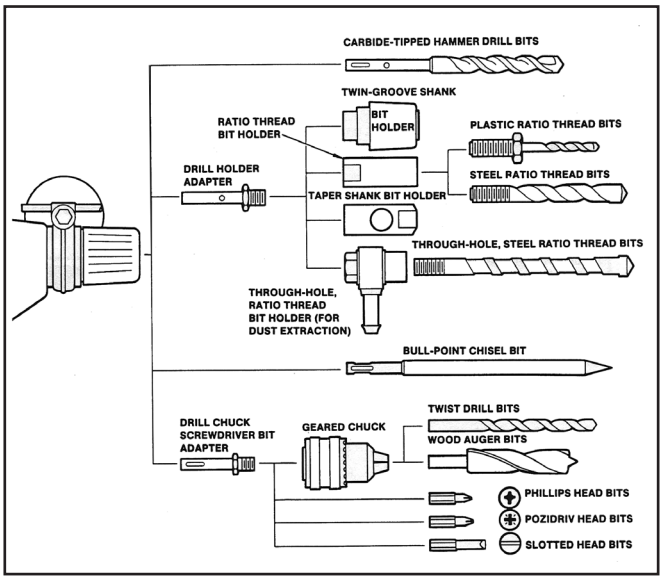


Figure 3. Hammer Drill Accessories

To install twin-groove shank, ratio thread shank, taper shank, or through-hole shank bits, install the Drill Holder Adapter as described above. Then simply screw the appropriate bit holder onto the drill holder adapter. Figure 3 illustrates these adapters and bit holders.

To install the Geared Chuck for use with standard drill bits and screwdriver bits in non-percussion drill mode, install the Drill Chuck/Screwdriver Bit Adapter as described above. Then install the appropriate bit into the

Geared Chuck and tighten with the chuck key. Figure 3 illustrates the adapter, Geared Chuck, and various standard bits.

DRILL OPERATION

Operate the HD08 Hammer Drill as follows:

1. Observe all safety precautions.
2. Install the appropriate adapters and/or bits into the hammer drill. Refer to the BIT INSTALLATION for details.
3. Set the hammer drill controls, side handle, and depth gauge. Refer to the CONTROLS section for details.

IMPORTANT

When operating the hammer drill in hammer mode, always use drill bits and accessories designed for impact type applications. DO NOT USE STANDARD DRILL BITS OR ACCESSORIES. THESE CAN CRACK OR FRACTURE DURING OPERATION.

4. Move the hydraulic circuit control valve to the **ON** position.
5. Squeeze the trigger to activate the drill.
6. Release the trigger to stop the drill.

MODES OF OPERATION

The hammer drill can operate in either drill only mode (without percussion) or hammer drill mode (with percussion).

In drill only mode, the hammer drill can be used for periodic light duty drilling. For extended use or heavy duty drilling use the Stanley DLO7 Hydraulic Drill.

The following sections provide operational guidelines for drilling, hammer drilling or chiselling.

DRILLING (NON-PERCUSSION)

Use the Drill Chuck/Screwdriver Bit Adapter and the Geared Chuck for periodic, light-duty drilling applications.

With the Geared Chuck mounted on the tool, loosen the chuck first with the chuck key, and then turn the chuck sleeve counterclockwise (looking at the chuck end of the tool) by hand. Loosen until the bit shank fits into the hole for the shank. Insert the appropriate bit shank into the chuck and tighten the chuck sleeve clockwise by hand. Tighten further by applying the chuck key successively to all three guide holes of the chuck.

The chuck key must not be attached to the tool with a chain, cord, or similar means.

When drilling into small work pieces, secure the piece (by clamping in a vise or otherwise securing it to the work surface) so that the piece is not turned by the drill bit during drilling.

IMPORTANT

When drilling into a structure that might contain electrical wiring, be sure to know the location of the wiring and avoid drilling into it. The housing can carry electrical current from live electrical wires into which the drill is accidently drilled resulting in injury or death.

HAMMER DRILLING (PERCUSSION)

Press the hammer drill bit against the work surface before squeezing the trigger. Do not operate the drill before contacting the work surface.

When hammer drilling, do not exert heavy pressure on the tool. Applying heavy pressure does not increase the drilling speed. You need only press lightly. When the drill is withdrawn from the work surface, the percussion action of the hammer drill stops.

CHISELLING

Use the Bull-point Chisel Bit for light-duty chiselling work. Press the hammer drill chisel bit against the work surface before squeezing the trigger. As with hammer drilling, do not exert heavy pressure on the tool. Press lightly.

The rotary motion of the hammer drill does not stop when chiselling. The bull-point chisel turns during chiselling. When the chisel is withdrawn from the work surface, the percussion action of the hammer drill stops.

Bull-point chisels that become blunt can be sharpened on a grinding machine.

COLD WEATHER OPERATION

If the drill is to be used during cold weather, preheat the hydraulic fluid at low engine speed. When using the normally recommended fluids, fluid temperature should be at or above 50 °F/10 °C (400 SSU/ 82 centistokes) before use.

Damage to the hydraulic system or drill can result from use with fluid that is too viscous or too thick.

TOOL PROTECTION & CARE

NOTICE

In addition to the Safety Precautions found in this manual, observe the following for equipment protection and care.

- Make sure all couplers are wiped clean before connection.
- The hydraulic circuit control valve must be in the **OFF** position when coupling or uncoupling hydraulic tools. Failure to do so may result in damage to the quick couplers and cause overheating of the hydraulic system.
- Always store the tool in a clean dry space, safe from damage or pilferage.
- Make sure the circuit PRESSURE hose (with male quick disconnect) is connected to the **IN** port. The circuit RETURN hose (with female quick disconnect) is connected to the opposite port. Do not reverse circuit flow. This can cause damage to internal seals.
- Always replace hoses, couplings and other parts with replacement parts recommended by Stanley Hydraulic Tools. Supply hoses must have a minimum working pressure rating of 2500 psi/172 bar.
- Do not exceed the rated flow. Refer to the Specifications page in this manual for correct flow rate and model number. Rapid failure of the internal seals may result.
- Always keep critical tool markings, such as warning stickers and tags legible.
- Tool repair should be performed by experienced personnel only.
- Make certain that the recommended relief valves are installed in the pressure side of the system.
- Do not use the tool for applications for which it was not intended.

TROUBLESHOOTING

If symptoms of poor performance develop, the following chart can be used as a guide to correct the problem.

When diagnosing faults in operation of the hammer drill, always check that the hydraulic power source is supplying the correct hydraulic flow and a pressure to the tool as listed in the table. Use a flowmeter known to be accurate. Check the flow with the hydraulic fluid temperature at least 80 °F/27 °C.

PROBLEM	CAUSE	SOLUTION
Drill will not start	Power not being supplied.	Check to make certain that both hoses are connected.
		Turn hydraulic circuit control valve ON.
	Defective quick-disconnect.	Check each disconnect separately. Replace as necessary.
	Jammed motor and/or parts.	Separate modules and inspect. See Service manual. Do not force parts together.
	Flow reversed through hoses.	Correct the power source control valve position. Prevent reverse flow by using only one port from the valve for pressure, the return tool hose to the cooler and the filter line. Correct the quick-disconnect male/female routing per instructions and arrows on the fittings.
Low hammer impact or drilling torque.	Incorrect hydraulic flow.	Check that the hydraulic power source is producing 4–9 gpm/15–34 lpm at 750–2000 psi/53–140 bar.
	Defective quick-disconnect.	Check each disconnect separately.
	Worn impact mechanism.	Separate modules and repair or replace impact mechanism. See Service section.
	Incorrect grease.	Metabo (forward module) mechanism is full of fluid or contaminants or is improperly greased. “Clean out, re-lubricate, and/or repair per Metabo instructions. See instructions for separating the rear module to supply Metabo portion to the dealer for service”.
	Reversing spool incorrectly installed.	Reversing spool upside down. Do not separate modules. See Service section.
	Hydraulic circuit relief set too low, hoses too restrictive or the hydraulic fluid is too thick.	Set relief valve at 2100 psi/145 bar. See Service section.
	Fluid restriction in hose or valve. Excess back pressure.	Locate and remove restriction.
		Use correct fluid.
		Fluid not warmed-up. Preheat system.
		Hoses too long for hose ID. Use shorter hose.
	Priority flow control valve or reverse check valve is malfunctioning.	Do not separate modules. See Service manual.
	Flow reversed through hoses.	Correct the power source control valve position. Prevent reverse flow by using only one port from the valve for pressure, the return tool hose to the cooler and the filter line. Correct the quick-disconnect male/female routing per instructions and the arrows on the fittings.

PROBLEM	CAUSE	SOLUTION
Drill operates in only one direction. Forward or reverse.	Reverse spool incorrectly installed.	Do not separate modules. Reassemble. See Service section.
	Reverse spool faulty.	Do not separate modules. Replace reverse spool. See Service section.
	Tool hose flow is reversed.	Tool must not be reversed by reversing hose flow. The tool is only designed for flow as indicated by the designations cast on the housing.
Drill runs too fast. Impact mechanism or screws broken.	Incorrect hydraulic flow.	Check the hydraulic power source is not producing over 9 gpm/34 lpm at 750–2000 psi/53–140 bar.
	Hydraulic flow reversed.	Correct the tool hoses. IN and OUT per instructions and if the power supply valve is reversible, reconnect the tool return hose to the oil cooler or to the filter directly.
	Priority valve faulty.	Do not separate modules. Remove, inspect and replace priority valve if necessary. See Service section.
Trigger operation erratic. Control difficult.	Trigger mechanism and strut area blocked by debris.	Do not separate modules. Clean trigger area. See Service section.
Fluid leaks at housing seam.	Motor screws loose.	Separate modules. Tighten to recommended torque.
	Motor cap seal worn or missing.	Separate modules. Replace as required.
	Motor cap/main housing damaged.	Separate modules. Replace as required.
Fluid leaks at reversing spool.	Damaged o-rings.	Do not separate modules. Replace them as required.
	Wrong hydraulic fluid. Circuit too hot.	See Operation section for correct fluid/circuit specifications.
	Hydraulic pressure and return hoses reversed.	Correct hose connections.
Fluid leak at air gap between module.	Oil leak at motor shaft seal.	Repair or replace. See Service section.
Fluid gets hot. Power unit working hard.	Open center tool on a closed center circuit or vice versa.	Use tools to match circuit.
	Circuit relief set too low.	Adjust relief valve to 2100–2250 psi/135–155 bar.
	Too much fluid going through tool.	Adjust flow for 9 gpm/34 lpm maximum.
	Circuit is generating high heat with flow controls.	Use pump size and rpm for producing needed flow only. Eliminate circuit heating causes.
	Circuit has contaminants that have caused wear and high heat generation.	Replace worn pump and valves. Install a large clean filter and keep the fluid clean.

SPECIFICATIONS

Rotation Speed at 6 gpm ..... 1175 rpm
Blows per Minute at 6 gpm ..... 4500 blows
Weight ..... 6 lbs/2.7 kg
Length ..... 13.8 in./35 cm
Height ..... 5.5 in./14 cm
Pressure ..... 750-2000 psi/50-114 bar
Flow Range ..... 3-9 gpm/11-34 lpm
Optimum Flow ..... 6 gpm/22.8 lpm
Porting ..... -8 SAE O-ring
Connect Size and Type ..... -8 SAE O-ring
Motor ..... Integral
Bit Type ..... SDS Plus

SOUND POWER AND VIBRATION DECLARATION	
Measured A-weighted sound power level, Lwa (ref. 1pW) in decibels	102 dBA
Uncertainty, Kwa, in decibels	3 dBA
Measured A-weighted sound pressure level, Lpa (ref. 20 µPa) at operator's position, in decibels	94 dBA
Uncertainty, Kpa, in decibels	3 dBA
Values determined according to noise test code given in ISO 15744, using the basic standard ISO 3744 **NOTE:** **The sum of a measured noise emission value and its associated uncertainty represents an upper boundary of the range of values which is likely to occur in measurements.**	
Declared vibration emission value in accordance with EN 12096	
Measured vibration emission value: a	10.3 m/sec²
Uncertainty: K	0.8 m/sec²
Values determined according to ISO 8662-3	

ACCESSORIES

DESCRIPTION **PART NUMBER**

1/2-inch Geared Chuck (requires chuck adapter P/N 16770) 16769
Chuck Adapter (used with geared chuck P/N 16769) 16770

SERVICE PARTS

DESCRIPTION **PART NUMBER**

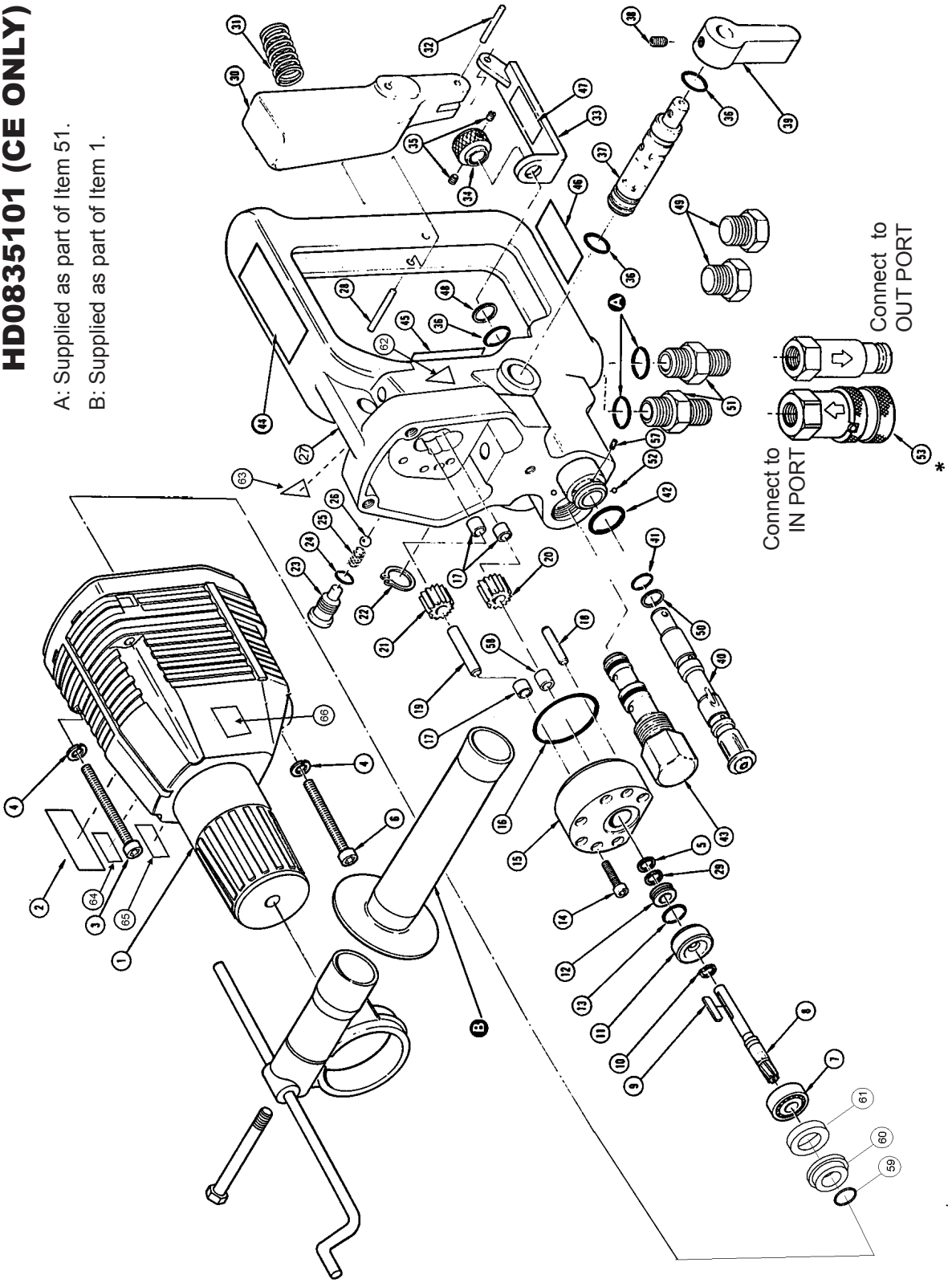
Service Kit, Includes Shaft Keeper and Knob 17183
Seal Kit 18142

HD08 PARTS ILLUSTRATION

MODEL HD08531G
HD0835101 (CE ONLY)

A: Supplied as part of Item 51.

B: Supplied as part of Item 1.



HD08 PARTS LIST

ITEM	PART NO.	QTY	DESCRIPTION
1	47450	1	HAMMER DRILL MECHANISM
2	17179	1	STANLEY DECAL
3	56713	2	CAPSCREW
4	00341	3	LOCKWASHER, #8
5	00179	1	MOTOR SEAL WASHER
6	00068	1	CAPSCREW
	47451	1	MAIN HOUSING ASSEMBLY (INCL ITEMS 17 & 23–27)
7	26203	1	BEARING
8	56711	1	MOTOR SHAFT
9	15896	1	KEY
10	00224	1	RETAINING RING
11	15893	1	BACK-UP WASHER
12	23327	1	SEAL LINER
13	00106	1	O-RING
14	15909	7	CAPSCREW
15	23330	1	MOTOR CAP ASSEMBLY (INCL ITEMS 17, 18 & 59)
16	00621	1	O-RING
17	05205	3	BUSING
18	00289	2	DOWEL PIN
19	15890	1	IDLER SHAFT
20	15895	1	DRIVE GEAR
21	15894	1	IDLER GEAR
22	17904	1	RETAINING RING
23	15956	1	CHECK PLUG
24	350792	1	O-RING
25	01602	1	COMPRESSION COIL SPRING
26	15966	1	STEEL BALL
27	35541	1	MAIN HOUSING
28	17668	1	ROLL PIN, 3/16 × 1-1/4
29	00112	1	QUAD RING
30	16598	1	TRIGGER
31	16647	1	COMPRESSION COIL SPRING
32	16648	1	ROLL PIN, 5/32 × 5/8
33	17815	1	TRIGGER STRUT
34	17817	1	KNOB
35	02837	2	SET SCREW
36	07626	3	O-RING, 1/2 × 5/8 × 1/16
37	15904	1	REVERSING SPOOL
38	17897	1	SET SCREW
39	04939	1	LEVER

ITEM	PART NO.	QTY	DESCRIPTION
40	17899	1	ON-OFF SPOOL OC/CC
41	17924	1	O-RING, 3/8 × 1/2 × 1/16
42	350810	1	O-RING, 9/16 × 3/4 × 3/32
43	15908	1	PRIORITY VALVE, 6 GPM
44	17160	1	ELECTRICAL DANGER DECAL
45	17161	1	NAME TAG/CAUTION DECAL
46	11354	1	OC/CC DECAL (OC/CC MODELS ONLY)
47	17162	1	OC/CC DECAL (OC/CC MODELS ONLY)
48	07224	1	BACK-UP RING, 1/2 × 1/16
49	06345	2	PLASTIC PLUG
50	07223	1	BACK-UP RING, 3/8 × 1/16
51	00936	2	ADAPTER FITTING
52	21338	2	BALL, 5/32 SST (OC/CC ONLY)
53	03971	1	COUPLER SET
54	—	—	NO ITEM
55	—	—	NO ITEM
56	—	—	NO ITEM
57	22668	1	SET SCREW
58	23328	1	BUSHING
59	18660	1	O-RING, METABO
60	56712	1	SLINGER, METABO
61	66380	1	SPACER
62	11206	1	CIRCUIT TYPE C DECAL (CE ONLY)
63	11207	1	CIRCUIT TYPE D DECAL (CE ONLY)
64	28323	1	CE DECAL (CE ONLY)
65	28788	1	MANUAL DECAL (CE ONLY)
66	22796	1	SOUND POWER DECAL (CE ONLY)
	26428	1	LOCK-OUT KIT (SHIPPED UNINSTALLED)
	18142	1	SEAL KIT

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IMPORTANT

To fill out a Product Warranty Recording form, and for information on your warranty, visit Stanleyhydraulic.com and select the Warranty tab.
(**NOTE:** The warranty recording form must be submitted to validate the warranty).